

ABSTRACT

AIM OF THE STUDY:

The aim of this study is to compare the results of **ultrasound guided aspiration and incision and drainage in the management of breast abscess.**

MATERIALS AND METHODS:

This is a comparative study between ultrasound guided aspiration and incision and drainage, consist of 50 patients who underwent both the treatment alternatively in our institution Govt. Stanley medical college hospital, Chennai-1 during 2013 – 2015.

THE INCLUSION CRITERIAS

All women with clinically and radiologically diagnosed breast abscess.

THE EXCLUSION CRITERIA

Patients with immunosuppression, recurrent abscess, necrotic skin overlying the abscess, old age, very large abscess.

METHODOLOGY:

- Period of study : 2 years
- Type of study : Comparison study (cross sectional)
- Sample size : 50

- Population included: patients with breast abscess who are undergoing treatment in Govt. Stanley medical college.
- Patients will be selected in alternative basis for both procedures and explained about the procedure with consent.
- For one group of patients, under short General anesthesia with aseptic precautions, incision and drainage done with 11 blade and abscess cavity packed with Wick gauze.
- For other group of patients, under Local anesthesia with Ultrasound guidance, aspiration done with 16G needle. Compressive bandage done.
- In usg guided aspiration, Patients will be followed up in 7th and 14th day following the procedure.
- Pus was sent for culture and sensitivity.
- Patient was started parenteral antibiotics and analgesics post operatively.
- On the 7th day, if abscess recollects again do reaspiration under ultrasound guidance, and followed up in 14th day.
- On the 14th day, if again recollects consider as failure and go for I&D.
- On the 7th and 14th day following aspiration, patients should be assessed both clinically and by USG breast.

- Clinically by the presence of erythema, swelling, tenderness and fever.
- And consider as successful aspiration if no collection.
- Results were tabulated and analyzed.

THE FOLLOWING FACTORS ARE TAKEN INTO ACCOUNT

1. SIZE

2. TYPE OF ANESTHESIA

3. COMPLICATIONS AFTER BOTH PROCEDURES

4. RECURRENCE

5. POST OPERATIVE HEALING TIME FOLLOWING BOTH PROCEDURES.

6. PATIENT SATISFACTION AFTER THE PROCEDURE

7. ETIOLOGY

OUR OBSERVATIONS WERE ,

Overall 50 patients of breast abscess,

25 were undergone incision and drainage under GA and

25 were undergone Ultrasound guided aspiration under LA

In an alternative manner.

The common age group affected by breast abscess is 21 to 25 yrs (22 patients).

4 patients developed complications following Incision and drainage.

3 milk fistula and wound gaping

1 recurrence.

And 3 patients developed complications following USG guided aspiration

All 3 cases were recurrences.

The Healing time following incision and drainage was 24.4 days

The Healing time following USG guided aspiration was 15.5 days.

Patients satisfaction post operatively following I & D was 68%

Patients satisfaction post operatively following USG guided aspiration was 88%.

Out of 4 recurrences following both modality of treatment, 3 cases were due to TB etiology. And started cat 1 ATT following incision and drainage.

Recurrence following USG guided aspiration was ultimately treated with incision and drainage.

CONCLUSION:

In my study USG guided aspiration is simple, painless, day care procedure and effective alternative method of treatment to incision and drainage in properly selected patient and with timely support by sonologist with early postoperative recovery and good patient satisfaction.

KEY WORDS

Ultrasonogram, incision and drainage, breast abscess